

FIG. 2A

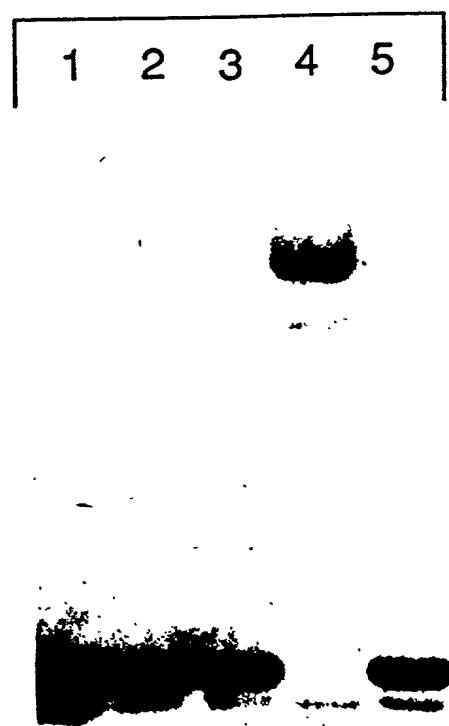


FIG. 2B

FIG. 3A

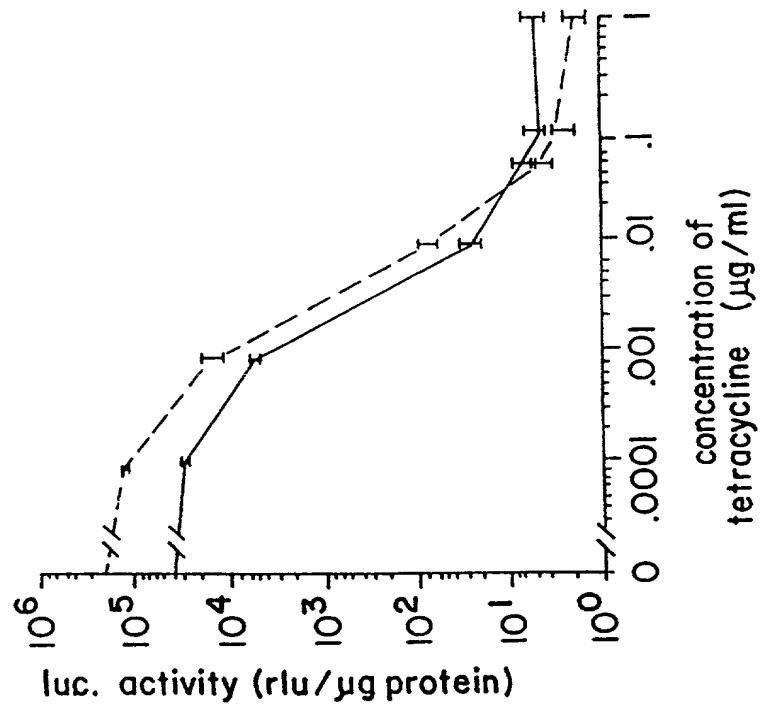
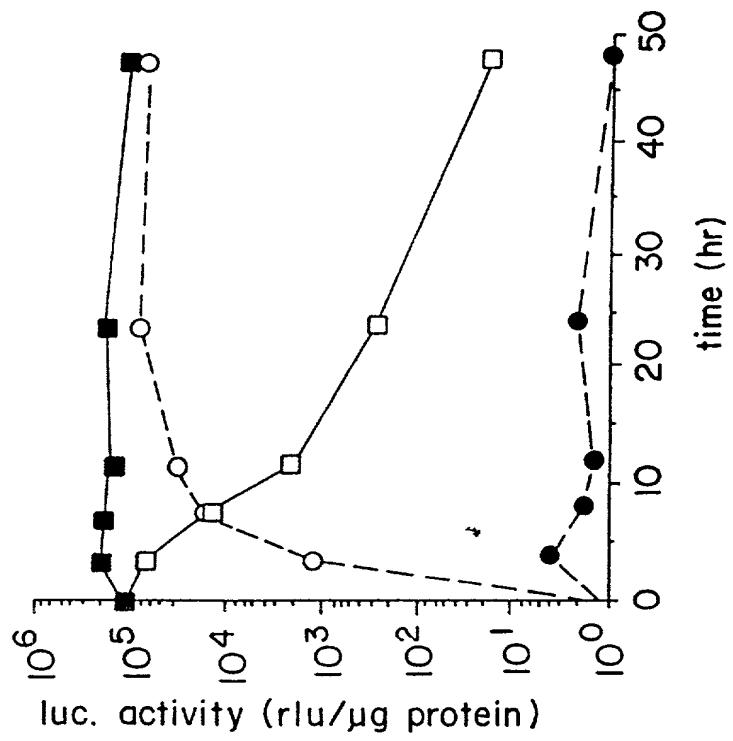


FIG. 3B



the *Journal of the Royal Society of Medicine* and the *Journal of Clinical Pathology* are the best sources of information on the subject.

ATG	TCT	AGA	TTA	GAT	AAA	AGT	AAA	GTG	ATT	AAC	AGC	GCA	TTA	GAG	CTG	CTT	AAT
Met	Ser	Arg	Leu	Asp	Lys	Ser	Lys	Val	Ile	Asn	Ser	Ala	Leu	Glu	Leu	Leu	Asn

GAG	GTC	GGA	ATC	GAA	GGT	TTA	ACA	ACC	CGT	AAA	CTC	GCC	CAG	AAG	CTA	GGT	GTA
Glu	Val	Gly	Ile	Glu	Gly	Gly	Leu	Thr	Arg	Lys	Leu	Ala	Gln	Lys	Leu	Gly	Val

GAG	CAG	CCT	ACA	TTG	TAT	TGG	CAT	GTA	AAA	AAT	AAG	CGG	GCT	TTG	CTC	GAC	GCC	
Glu	Gln	Gln	Pro	Thr	Leu	Tyr	Trp	His	Val	Lys	Asn	Lys	Arg	Ala	Leu	Leu	Asp	Ala

TTA	GCC	ATT	GAG	ATG	TAA	GAT	AGG	CAC	CAT	ACT	CAC	TTT	TGC	CCT	TTA	GAA	GGG
Leu	Ala	Ile	Glu	Met	Leu	Asp	Arg	His	His	Thr	His	Phe	Cys	Pro	Leu	Glu	Gly

GAA	AGC	TGG	CAA	GAT	TTT	TTA	CGT	AAT	AAG	GCT	AAA	AGT	TTT	AGA	TGT	GCT	TTA
Glu	Ser	Trp	Gln	Asp	Phe	Leu	Arg	Asn	Lys	Ala	Lys	Ser	Phe	Arg	Cys	Ala	Leu

Fig. 4A

Figure 4B shows the sequence of the first 100 nucleotides of the cDNA for the human gene for the 110 kDa heat shock protein. The sequence is as follows:

CTA AGT CAT CGC GAT GGA GCA AAA GTA CAT TTA GGT ACA CGG CCT ACA GAA AAA  
Leu Ser His Arg Asp Gly Ala Lys Val His Leu Gly Thr Arg Pro Thr Glu Lys

CAG TAT GAA ACT CTC GAA ATT CAA TTA GCC TTT TTA TGC CAA CAA GGT TTT TCA  
Gln Tyr Glu Thr Leu Glu Asn Gln Leu Ala Phe Leu Cys Gln Gln Gly Phe Ser

CTA GAG ATT GCA TTA TAT GCA CTC AGC GCT GTG GGG CAT TTT ACT TTA GGT TGC  
Leu Glu Asn Ala Leu Tyr Ala Leu Ser Ala Val Gly His Phe Thr Leu Gly Cys

GTA TTG GAA GAT CAA GAG CAT CAA GTC GCT AAA GAA GAA AGG GAA ACA CCT ACT  
Val Leu Glu Asp Gln Glu His Gln Val Ala Lys Glu Glu Arg Glu Thr Pro Thr

ACT GAT AGT ATG CCG CCA TTA CGA CAA GCT ATC GAA TTA TTT GAT CAC CAA  
Thr Asp Ser Met Pro Pro Leu Leu Arg Gln Ala Ile Glu Leu Phe Asp His Gln

Fig. 4B

GGT	GCA	GAG	CCA	GCC	TTC	TTA	TTC	GGC	CTT	GAA	TTG	ATC	ATA	TGC	GGA	TTA	GAA	
Gly	Ala	Glu	Pro	Ala	Phe	Leu	Gly	Leu	Glu	Leu	Ile	Ile	Cys	Gly	Cys	Gly	Leu	Glu

AAA	CAA	CTT	AAA	TGT	GAA	AGT	GGG	TCC	GGC	TAC	AGC	CGC	GCG	CGT	ACG	AAA	AAC
Lys	Gln	Leu	Lys	Cys	Glu	Ser	Gly	Ser	Ala	Tyr	Ser	Arg	Ala	Arg	Thr	Lys	Asn

AAT	TAC	GGG	TCT	ACC	ATC	GAG	GGC	CTG	CTC	GAT	C <sup>r</sup> TC	CCG	GAC	GAC	GCC	CCC	CCC
Asn	Tyr	Gly	Ser	Thr	Ile	Glu	Gly	Leu	Leu	Asp	Leu	Pro	Asp	Asp	Asp	Ala	Pro

GAA	GAG	GCG	GGG	CTG	GCG	GCT	CCG	CGC	TCC	TTT	CTC	CCC	GCG	GGA	CAC	ACG	ACG
Glu	Glu	Ala	Gly	Leu	Ala	Ala	Pro	Arg	Leu	Ser	Phe	Leu	Pro	Ala	Gly	His	Thr

CGC	AGA	CTG	TCG	ACG	GCC	CCC	CCG	ACC	GAT	GTC	AGC	CTG	GGG	GAC	GAG	CTC	CAC
Arg	Arg	Leu	Ser	Thr	Ala	Pro	Pro	Thr	Asp	Val	Ser	Leu	Gly	Asp	Glu	Leu	His

Fig. 4C

TTA GAC GGC GAG GAC GTG GCG ATG GCG CAT GCC GAC GCG CTA GAC GAT TTC GAT  
Leu Asp Gly Glu Asp Val Ala Met Ala His Ala Asp Ala Leu Asp Asp Phe Asp

CTG	GAC	ATG	TTG	GGG	GAC	GGG	GAT	TCC	CCG	GGT	CCG	GGA	TTT	ACC	CCC	CAC	GAC
Leu	Asp	Met	Leu	Gly	Asp	Gly	Asp	Ser	Pro	Gly	Pro	Gly	Phe	Thr	Pro	His	Asp

TCC	GCC	CCC	TAC	GGC	GCT	CTG	GAT	ATG	GAC	GCC	GAC	TTC	GAG	TTT	GAG	CAG	ATG	TTT	
Ser	Ala	Pro	Tyr	Gly	Ala	Leu	Asp	Met	Ala	Asp	Met	Ala	Asp	Phe	Glu	Glu	Gln	Met	Phe

ACC	GAT	CCC	CTT	GGA	ATT	GAC	GAG	TAC	GGT	GGG	TAG
Thr	Asp	Pro	Leu	Gly	Ile	Asp	Glu	Tyr	Gly	Gly	*

Fig. 4D

He had a very good time, and when he got home he told his wife all about it.

ATG	TCT	AGA	TTA	GAT	AAA	AGT	AAA	GTG	ATT	AAC	AGC	GCA	TTA	GAG	CTG	CTG	AAT
Met	Ser	Arg	Leu	Asp	Lys	Ser	Lys	Val	Ile	Asn	Ser	Ala	Leu	Glu	Leu	Leu	Asn

GAG	GTC	GGA	ATC	GAA	GGT	TTA	ACA	ACC	CGT	AAA	CTC	GCC	CAG	AAG	CTA	GGT	GTA
Glu	Val	Gly	Ile	Glu	Gly	Leu	Thr	Thr	Arg	Leu	Ala	Gln	Lys	Leu	Gly	Val	

GAG	CAG	CCT	ACA	TG	TAT	TGG	CAT	GTA	AAA	AAT	AAG	CGG	GCT	TTG	CTC	GAC	GCC	
Glu	Gln	Gln	Pro	Thr	Leu	Tyr	Trp	His	Val	Lys	Asn	Lys	Arg	Ala	Ileu	Leu	Asp	Ala

TTA	GCC	ATT	GAG	ATG	TTA	GAT	AGG	CAC	CAT	ACT	CAC	TTC	TGC	CCT	TTA	GAA	GGG
Leu	Ala	Ile	Clu	Met	Leu	Asp	Arg	His	His	Thr	His	Phe	Cys	Pro	Leu	Glu	Gly

GAA	AGC	TGG	CAA	GAT	TTT	TTA	CGT	AAT	AAC	GCT	AAA	AGT	TTT	AGA	TGT	GCT	TTA
Glu	Ser	Trp	Gln	Asp	Phe	Leu	Arg	Asn	Asn	Ala	Lys	Ser	Phe	Arg	Cys	Ala	Leu

Fig. 5A

CTA AGT CAT CGC GAT GGA GCA AAA GTA CAT TTA GGT ACA CGG CCT ACA GAA AAA  
Leu Ser His Arg Asp GLY Ala Lys Val His Leu GLY Thr Arg Pro Thr Glu Lys

CAG TAT GAA ACT CTC GAA ATT CAA TTA GCC TTT TTA TGC CAA GGT TTT TCA  
Gln Tyr Glu Thr Leu Glu Asn Gln Leu Ala Phe Leu Cys Gln Gln GLY Phe Ser

CTA GAG AAT GCA TTA TAT GCA CTC AGC GCT GTG GGG CAT TTT ACT TTA GGT TGC  
Leu Glu Asn Ala Leu Tyr Ala Leu Ser Ala Val GLY His Phe Thr Leu GLY Cys

GTA TTG GAA GAT CAA GAG CAT CAA GTC GCT AAA GAA GAA AGG GAA ACA CCT ACT  
Val Leu Glu Asp Gln Glu His Gln Val Ala Lys Glu Glu Arg Glu Thr Pro Thr

ACT GAT AGT ATG CCG CCA TTA TTA CGA CAA GCT ATC GAA TTA TTT GAT CAC CAA  
Thr Asp Ser Met Pro Pro Leu Leu Arg Gln Ala Ile Glu Leu Phe Asp His Gln

*Fig. 5B*

GGT	GCA	GAG	CCA	GCC	TTC	TTA	TTC	GGC	CTT	GAA	TTG	ATC	ATA	TGC	GGA	TTA	GAA
Gly	Ala	Glu	Pro	Ala	Phe	Leu	Phe	Gly	Leu	Glu	Leu	Ile	Ile	Cys	Gly	Leu	Glu

AAA	CAA	CTT	AAA	TGT	GAA	AGT	GGG	TCT	GAT	CCA	TCG	ATA	CAC	ACG	CGC	AGA	CTG
Lys	Gln	Leu	Lys	Cys	Glu	Ser	Gly	Ser	Asp	Pro	Ser	Ile	His	Thr	Arg	Arg	Leu

TCG	ACG	GCC	CCC	CCG	ACC	GAT	GTC	AGC	CTG	GGG	GAC	GAG	CTC	CAC	TTA	GAC	GGC		
Ser	Thr	Ala	Pro	Pro	Thr	Asp	Val	Ser	Leu	Gly	Glu	Gly	Asp	Glu	Leu	His	Leu	Asp	Gly

GAG	GAC	GTG	GCG	ATG	GCG	CAT	GCC	GAC	GCG	CTA	GAC	GAT	TTC	GAT	CTG	GAC	ATG
Glu	Asp	Val	Ala	Met	Ala	His	Ala	Asp	Ala	Leu	Asp	Asp	Phe	Asp	Leu	Asp	Met

TTG	GGG	GAC	GGG	GAT	TCC	CCG	GGT	CCG	GGA	TTT	ACC	CCC	CAC	GAC	TCC	GCC	CCC		
Leu	Gly	Asp	Gly	Asp	Ser	Pro	Gly	Pro	Gly	Pro	Gly	Phe	Thr	Pro	His	Asp	Ser	Ala	Pro

Fig. 5C

He had a good mind, but he was not a good man. He was not a good man, but he had a good mind.

TAC	GGC	GCT	CTG	GAT	ATG	GCC	GAC	TTC	GAG	TTT	GAG	CAG	ATG	ATG	TTT	ACC	GAT	GCC
Tyr	Gly	Ala	Leu	Asp	Met	Ala	Asp	Phe	Glu	Phe	Glu	Gln	Met	Phe	Thr	Asp	Ala	

CTT	GGA	ATT	GAC	GAG	TAC	GGT	GGG	TTC	TAG	
Leu	Gly	Gly	Ile	Asp	Glu	Tyr	Gly	Gly	Phe	*

Fig 5D

GAATT CCT CGAGT TACCACTCCCTATCAGTGATAGAGAAAAGTGAAGT CGAGTTACCACTC  
CCTATCAGTGATAGAGAAAAGTGAAGT CGAGTTACCACTCCCTATCAGTGATAGAGAAAAGT  
GAAAGT CGAGT TACCACTCCCTATCAGTGATAGAGAAAAGTGAAGT CGAGTTACCACTCCC  
TATCAGTGATAGAGAAAAGTGAAGT CGAGT TACCACTCCCTATCAGTGATAGAGAAAAGTGA  
AAGTCGAGTTACCACTCCCTATCAGTGATAGAGAAAAGTGAAGT CGAGCTCGGTACCCGGGT  
CGAGT AGGGCGTGTACGGTGGGAGGGCTATAAGCAGAGCTCGTTAGTGAACCGTCAGATCGC  
CTGGAGACGCCATCCACGCTGTTGACCTCCATAGAAGACACGGGACCGATCCAGCCTCCGC  
GG

Fig. 6

up to 1000 m/s and 1000 m/s up to 1000 m/s

GAATTCCCTCGACCCGGGTACCGAGCTCGACTTTCACTTCTCTATCACTGATAGGGAGTGGTAAACTCGACTTTCACTTTCTCT  
AACTCGACTTTCACTTCTCTATCACTGATAGGGAGTGGTAAACTCGACTTTCACTTCTCTATCACTGATAGGGAGTGGTAA  
ATCACTGATAGGGAGTGGTAAACTCGACTTTCACTTCTCTATCACTGATAGGGAGTGGTAAACTCGACTTTCACTTCTCTAT  
CTCGACTTTCACTTCTCTATCACTGATAGGGAGTGGTAAACTCGACTTTCACTTCTCTATCACTGATAGGGAGTGGTAAACT  
CACTGATAGGGAGTGGTAAACTCGACTTTCACTTCTCTATCACTGATAGGGAGTGGTAAACTCGACTTTCACTTCTCTAT  
CGAGTAGGGCGTGTACGGTGGGGAGGCTATATAAGCAGAGCTCGTTIAGTGAACCGTCAAGATCGC  
CTGGAGACGCCATCCACGCTGTGTTGACCTCCATAGAAGACACCGGGACCGATCCAGCCTCCGC  
GG

Fig. 7

GAGCTCGACTTTCACTTCTCTATCACTGATAAGGGAGTGGTAAACTCGACTTTCACTGACTTTCTC  
TATCACTGATAAGGGAGTGGTAAACTCGACTTTCACTGACTTTCTCTATCACTGATAAGGGAGTGGTAA  
ACTCGACTTTCACTTCTCTATCACTGATAAGGGAGTGGTAAACTCGACTTTCACTGACTTTCTCTA  
TCACTGATAAGGGAGTGGTAAACTCGACTTTCACTGACTTTCTCTATCACTGATAAGGGAGTGGTAAAC  
TCGACTTTCACTTCTCTATCACTGATAAGGGAGTGGTAAACTCGAGATCCGGCGAATTCGAAC  
ACGGCAGATGCAAGTCGGGGCGCGCGCGTCCACTTCGCAATTAGGTGACGGCGTGTGG  
CCTCGAACACCGAG

Fig. 8

Fig. 9A

Fig. 9B

CCCTTCG: CCCGGAGGGGCTTCCCCCTCTGGCTCGTCCACCCCTG'TGGGGGGCGGCGACTTCC  
CCGACTGCACCTACCGCCCGAGCCGAGCCAAAGATGACGCCTACGGCGACTT  
CCAGCCGCCGCCTCAAGATAAAGGAGGGAGGAAGAAGCCGGCGAGGGCCGGCGCTCCCCG  
CGTACGTAACCTGGTGGCTGGTGCACCCGGCTTCCCCGGACTTCCAGCTGGCAGGGCG  
CGCCACCCCTGGCTGGCCCTCGAGTGCCCTCGTCCAGACCCGGGAAGCGGGCGGGCCTC  
CCCAGGCAGTGCCTCCGTCTCCTCGTCGGGTCTGACCCCTGGAGTGCAATCCTGTAC  
AAGGCAGAAGGGCGCCGCCAGCAGGGCCCTTGCAGGGCCTGCCCCCTGCAAGCCCTCCGGCG  
CCGGCCCTGGCTCCCGGGACGGCCTGCCCTCACCTCCGGCCTCGGCCAGCCGG  
GGCCGCCCTGGCTTACCCGACGGCTCGGCCCTCAACGGACTCCCGCAACTCGGCTACCAGGCC  
GCCGTGCTCAAGGAGGGCCTGCCGAGGTCTACACGCCCTATCTCAACTACCTGAGGGCGGATT  
CAGAAGCCAGTCAGAGGCCACAGTACAGCTCGAGTCACTACACTCAGAAGATTGTTGATCTG  
TGGGGATGAAGGCATCAGGCTGTCAATTATGGTGTCCCTCACCTGGAGCTGTAAGGTCTTCTTT  
AAAAGGGCAATTGGAAAGGGCAGCATAACTATTATGTGCTGGAAAGAAATGACTGCATTGTTGATA

Fig. 9C

AAATCCGCAGGAAAAACTGCCCGGGTGTGCCCTTAGAAAGTGTCAAGCTGGCATGGTCCT  
TGGAGGGGAAAGTTAAAAGTTCAATAAGTCAGAGTCATGAGGCACTCGATGCTGTTGCT  
CTCCCCACAGCCAGTGGCATTCCAATGAAAGCCAACGAATCACTTTTCTCAAGTCAAGAGA  
TACAGTTAATTCCCCCTCTAATCAACCTGTTAATGAGGCATTGAACCAGATGTGATCTATGGCAGG  
ACATGACAACAAAGCCTGATAACCTCCAGTTCTTGCTGACGAGTCTTAATCAACTAGGCAG  
CGGCCAACTTTCAGTGGTAAAATGGTCCAATCTCTCCAGGTTTCGAAAACCTACATATTG  
ATGACCCAGATAACTCTCATCCAGTATTCTTGGATGAGTTAATGGTATTGGACTAGGATGGAG  
ATCCTACAAACATGTCAAGTGGCAGATGCTGTATTGCACCTGATCTAATAATTAAATGAAACAG  
CGGATGAAAGAATCATCATTCACTATGCCTTACCATGTCAGATGGCAGATACCGCAGGAGTTG  
TCAAGCTTCAAGT"AGCTTACGCCAAGGAAGAGTTCCCTGCATGAAAGTATTACTACTTCTTAATACAAT  
TCCCTTGGAAAGGACTAAGAAGTCAAAGCCAGTTGAAAGAGATGAGATCAAGCTACATTAGAGAG  
CTCATCAAGGCAATTGGTTGAGGCAAAAAGGAGTTGTTCCAGCTCACAGCGTTCTATCAGC  
TCACAAAACCTTGTGATAACCTTGATGATCTTGTCAAAACACTTCACCTGACTGCCCTGAATAAC

Fig. 9D

ATTATCCAGTCCCCGGCGCTGAGTGTGAAATTCCAGAAATGATGTCTGAAGTTATTGCTGCA  
CAGTACCCAAAGATATTGGCAGGGATGGTGAACCACTTCTCTTCTAAAGTGAATGTCAA  
TTTATTTCAAAAGAATTAAAGTGTGTGGTATGTCTTTCGTTGGTCAGGATTATGACGTCTCG  
AGTTTTTATAATTCTGAAAGGGAAATTCCCTGCAGCCCCGGGGATCCACTAGTTCTAGAGGATC  
CAGACATGATAAAGATAACATTGATGAGTTGGACAAACCACAACTAGAAATGCAGTGAAAAAAATG  
CTTATTGTGAAATTGTGATGCTATTGCTTATTGCTTATAACCATTATAAGCTGCAATAACAA  
GTTAACAAACAATTGCATTCAATTGCTTATGTCTCAGGGTCAAGGGGGAGGGTGTGGAGGTTTTT  
AAAGCAAGTAAACCTCTACAAATGTGGTATGGCTGATTATGATCCTGCAAGCCTCGTCGTCTG  
GCCGGACCAACGCTATCTGTGCAAGGTCCCCGGACGGCGCTCCATGAGCAGGGCCCGGCC  
GAGGCAAGACTGGGGCGCCCTGCCGTCCCCCACAGGTCAACAGGGCTAACCGGGCTCTTC  
ATCGGGAATGCGGGCACCTCAGCATCGCCGGCATGTCCCCCTGGGGACGGGAAGTATCAGCT  
CGACCAAGCTTGGCGAGATTCAAGGAAGCTAAAGGAGCTAAATGGAGAAAAAATCACTGGAT  
ATACCACCGTGTGATAATCCCCAATGGCATCGTAAAGAACATTGAGGCATTTCAGTCAGTTGC

Fig. 9E

TCAATGTACCIATAACCAAGACCGTTCAAGCTGCATTAAATGAATCGGCCAACGGCGGGAGAGGC  
GGTTTGCCTATGGCGCTCTCCGCTTCCCTCGCTCACTGACTCGCGCTCGGTCGTTCGGC  
TGCGGGCGAGCGTATCAGCTCACTCAAAGGGTAATAACGGTTATCCACAGAATCAGGGATAAA  
CGCAGGAAAGAACATGAGCAAAGGCCAGCAAAGGCCAGGAACCGTAAAAAGGCCGGTGTG  
CTGGCGTTCCATAGGCTCCGGCCCCCTGACGAGCATCACACAAATCGACGCTCAAGTCAGA  
GGTGGCGAAACCCGACAGGAACTATAAGATAACCAGGGGTTTCCCCCTGGAAAGCTCCCTCGTGCG  
CTCTCCTGTTCCGACCCCTGCCGCTTACCGGATAACCTTGTCCGCCCTTCTCCCTTCGGGAAGCGTG  
GGGCTTTCTCAATGCTCACGGCTGTAGGTATCTCAGTTGGGTAGGTGCTCGCTCCAAGCTGG  
GCTGTGCACGAACCCCCGGTTCAGCCCCGACCCGCTGCCCTTATCCGGTAACTATCGTCTTGA  
GTCCACCCGGTAAGAACACGGAACCTTATGCCCACTGGCAGGCCACTGGTAACAGGATTAGCAGA  
GGGAGGGTATGTAGGGGGGTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAA  
GGACAGTATTGGTATCTGCCCTGTGCTGAAGCCAGTTACCTTCGGAAAAGAGTTGGTAGCTC  
TTGATCCGGAAACAAACCAACCGCTGGTAGCCGGTTTGTGCAAGCAGCAGATTACG

Fig. 9F

CGCAGAAAAAGGATCTCAAGAAGATCCTTGTATCTGGGTCTGACGGCTCAGTGGAA  
ACGAAACTCACGTTAAGGGATTGGTCATGAGATTATCAAAAGGATCTCACCTAGATCCT  
TTTAAATTAAATGAAGTTAAATCAATTAAAGTATATATGAGTAAACTTGGTCTGACAGT  
TACCAATGCTTAATCAGTGAGGCACCTATCTCAGGGATCTGTCTATTTCGTTCATCCATAGTTG  
CCTGACTCCCCGTCGTGTAGATAACTACGATAACGGAGGGCTTACCATCTGCCCCAGTGC  
AATGATAACCGGAGACCCACGGCTCACCGGCTCCAGATTATCAGCAATAACCAACCAGCCAGGA  
AGGGCCGGAGAAGTGGTCCCTGCAACTTATCCGCCTCCATCCAGTCTATTAAATTGTTGCC  
GGGAAGCTAGAGTAAGTAGTTGCCAGTTAATAGTTGGCTTCAAGCTTGGTATGGCTTCCGGTTCCCAACGATCAAGG  
CATCGTGGTGTCA CGGCTCGTCGTTGGTATGGCTTCAATTCAAGCTCCGGTTCCCAACGATCAAGG  
CGAGTTACATGATCCCCCATGTTGTGCAAAAAGCGGTTAGCTCCTCCGATCGTTG  
TCAGAAGTAAGTTGGCCGGCAGTGTATCACTCATGGTTATGGCAGGACTGCATAATTCTCTTAC  
TGTCAATGCCATCCGTAAGATGCTTGTGACTGGTGA GTACTCAACCAAGTCATTCTGAGAA  
TAGTGTATGCGGGACCCGAGTTGCTCTTGGCCGGCTCAATAACGGGATAATACCGGCCACATA

Fig. 9G

GCAGAACCTTAAAGTGCCTCATCATTGGAAACGTTCTTCGGGGCGAAAACCTCTCAAGGATCTT  
ACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTT  
ACTTTCACCGCGTTCTGGGTGAGCAAAACAGGAAGGCCAAATGCCGAAAAAGGGAAATAA  
GGGCGACACGGAAATGTTGAATACTCATACTCTTCCTTTCAATATTATTGAAGCATTATCA  
GGGTATTGTCTCATGAGCGGATAATTTGAATGTATTAGAAAATAACAAATAGGGTT  
CCGGCACATTCCCCGAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCATGACATTA  
CCTATAAAATAGGCGTATCACCGGCCCTTCGTC

*Fig. 9H*

Fig. 10A

CCCACGGCCAGCAGGTGCCCTACTACCTGGAGAACGGAGCCAGGGCTACACGGGTGGCGAGGC  
CGGCCCGGCCATTCTACAGGCCAAATTCAAGATAATCGACGCCAGGGTGGCAGAGAAAGATTG  
GCCAGTACCAATGACAAGGAAGTATGGCTATGGAAATCTGCCAAGGAGACTCGCTACTGTGCAG  
TGTGCAATGACTATGCTTCAGGCTACCCATTATGGAGTCTGGTCCCTGTGAGGGCTGCAAGGGCTT  
CTTCAAGAGAAAGTATTCAAGGACATAACGACTATATGTGTCCAGCCACCAACCAGTGCACCATT  
GATAAAACAGGAGGAAGAGCTGCCAGGCCTGCCCTCCGCAAATGCTACGAAGTGGGAATGA  
TGAAGGTGGGATACCAAAAGACCGAACGGAGGGAGGAATGTTGAAACACACAAGGCCAGAGAGA  
TGATGGGAGGGCAGGGTGAAGTGGGTCTGCTGGAGACATGAGAGCTGCCAACCTTGGCCA  
AGCCCCGCTCATGATCAAAGGCTCTAAAGAACAGCCTGGCCTTGTCAGGGGACCCAGA  
TGGTCATGGCCTTGTGGATGCTGAGCCCCCATACTCTATTCCGAGATGATCCTACCAAGACC  
CTTCAGTGAAGCCTTCCGATGGCTTACTGACCAACCTGCCAGACAGGGAGCTGGTTCACATG  
ATCAACTGGCGAACGGGTGCCAGGGCTTGTGGATTGACCCCTCCATGATCAGGTCCACCTTC  
TAGAATGTGCCCTGGCTAGAGATCCTGATGATTGGTCTCGTGGCCTCCATGGACCCAGT

Fig. 10B

GAAGCTACTTGTCTTAACTTGTCTGGACAGGAACCAAGGGAAAATGTGTAGAGGGCATG  
GTGGAGATCTCGACATGCTGGCTACATCATCTCGGTTCGGCATGATGAATCTGCAGGGAG  
AGGAGTTGTGCCTCAAATCTATTATTGCTTAATTCTGGAGTGTACACATTCTGTCCAG  
CACCTGAAAGTCTCTGGAAAGAGAACCATATCCACCCGAGTCCTGGACAAAGATCACAGACACT  
TTGATCCACCTGATGCCAAGGCAGGCAGCCCTGACCCCTGCAGCAGCACCAGGGCTGGCCAGC  
TCCTCCTCATCCTCCACATCAGGCACATGAGTAACAAAGGCATGGAGCATCTGTACAGCAT  
GAAGTGCAAGAACGTGGTGCCTCTATGACCTGCTGGAGATGCTGGACGGCCACCGCCTA  
CATGCCCACTAGCCGTGGAGGGCATCCGGAGACGGACCAAAGCCACTTGGCCACTG  
CGGGCTACTTCATCGCATTCCTGCCAAAGTATTACATCACGGGGAGGCAGAGGGTTTCCC  
TGCCACAGTCTGAGAGCTCCCTGGCGGAATTGAGCTCGGTACCCGGGATCCTCTAGAGGATC  
CAGACATGATAAGATACATTGATGAGTTGGACAAACCACAACTAGAATGCAGTGAAAAAAATG  
CTTTATTGTGAAATTGTGATGCTATTGCTTATTGTAAACCATTATAAGCTGCAATAAACAA  
GTTAACAAACAATTGCATTTCAGGTTCAAGGTTCAAGGGGAGGGTGTGGAGGGTTTTT

Fig. 10C

AAAGCAAGTAAAACCTCTACAATGTGGTATGGCTGATTATGATCCCTGCAAGGCCCTCGTCGTCTG  
GCCGGACCCAGCTATCTGTGCAAGGTCCCCGGACGCCGCTCCATGAGCAGGCCGCCGCC  
GAGGCAAGAGACTCGGGGGCGCCCTGCCCGTCCCCACCCAGGTCAAACAGGGGTAAACCGGGTAACCGGGCTCTTC  
ATCGGGAAATGCGCGCGACCTTCAGCATCGCCGGCATGTCCCCCTGGGGACGGGAAGTATCAGCT  
CGACCAAGCTTGGCGAGATTTCAAGGAGCTAAGGAAGCTAAAAATGGAGAAAAAAATCACTGGAT  
ATACCACCGTTGATATAACCAGACCGTTCAAGCTGCAATTAAATGAAATGGCAATTTCAGTCAGTCAGTG  
TCAATGTACCTATAACCAGACCGTTCAAGCTGCAATTAAATGAAATCGGCAACCGGGGGAGAGGC  
GGTTTGGGTATTGGGGCTCTCCGCTTCCTCGCTCACTGACTCGCTGGCTCGGTCGGTGGC  
TGCGGGCGAGCGGTATCACTCAACTCAAAGGGTAATAACGGTTATCCACAGAATCAGGGATAA  
CGCAGGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGGCGGTTG  
CTGGCGGTATTTCATAGGCTTCCGGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGA  
GGTGGCGAAACCCGACAGGACTATAAAGATAACCGGGTTTCCCCCTGGAAAGGCTCCCTCGTGGCG  
CTCTCCTGTTCCGACCCCTGCCGCTTACCGGATAACCTGTCCGGCTTCTCCCTCGGAAAGGCGTGT

Fig. 10D

GGGCTTTCTCATGCTCACGGCTGTAGGGTATCTCAGITCGGTAGGGTCGTTCGCTCCAAGCTGG  
GCTGTGTGCACGAACCCCCGGTTCAAGCCGACCGCTGGCTGCCACTGGCAGGCCACTGGTAACACTATCGTCTTGA  
GTCCAACCCGGTAAGACACGACTTATGCCACTGGCAGGCCACTGGCAGGCCACTGGTAACAGGATTAGCAGA  
GGGAGGGTATGTAGGGCGGTGCTACAGAGTTCTTGAAAGTGGTGGCTACACTACGGCTACACTAGAA  
GGACAGTATTGGTATCTGCGCTCTGCTGAAGGCCAGTTACCTTCGGAAAAAGAGGTTGGTAGCTC  
TTGATCCC GCAAACAAACCACCGCTGGTAGGGTTTTGTTGCAAGGCAGCAGATTACG  
CGCAGAAAAAGGATCTCAAGAAAGATCCTTGTATCTACGGGTCTGACGCTCAGTGG  
ACGAAACTCACGTTAAGGGATTGGTCAATGAGATTATCAAAAAGGATCTCACCTAGATCCT  
TTAAATTAAAATGAAGTTAAATCAAACTAAAGTATATGAGTAAACTTGGTCTGACAGT  
TACCAATGCTTAATCAGTGGCACCTATCTCAGCGATCTGTCTATTCTGTCATCCATAGTTG  
CCTGATCCCCGGTGTGATTAACCGGATACGGGGCTTACCCATTCTGGCCCCAGTGGCTGCA  
ATGATAACCGGGAGACCCACGGCTCACCGGCTCCAGATTATCAGCAATAAACAGCCAGCGGAA  
GGGCCGAGCGAGAAGTGGTCTGCAACTTTATCCGGCCTCCATCCAGTCTATTAAATTGTTGCCG

Fig. 10E

GGAAAGCTTAAGTAAGTGTAGTTGCCAGTTAAATAGTTGGCAACGTTGCTTGGCATTGCTACAGGC  
ATCGTGTGTACGGCTCGTCGTTGGTATGGCTTCATTCAAGCTCCGGTCCAAACGATCAAGGC  
GAGTTACATGATCCCCCATGTTGTGCAAAAAGCGGTTAGCTCAGCTCCGGATCGTTGT  
CAGAAGTAAGTGGCCGCAGTGTATCACTCATGGTTATGGCAGCAGTGCATAATTCTCTTACT  
GTCATGCCATCGTAAGATGCTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAAT  
AGTGTATGGCGACCGAGTTGCTCTGCCGGGTCAATAACGGATAATACGGCACATAG  
CAGAACCTTAAAGTGTCACTCATGGAAAACGTTCTGGGGCGAAAACCTCAAGGATCTTA  
CCGCTGTTGAGATCCAGTTGATGTAACCCACTCGTGCACCCAACGTACTCTCAGGATCTTTA  
CTTTCACCAGCGTTCTGGGTGAGCAAAAACAGGAAGGCCAAAATGCCGAAAGGAATAAG  
GGC GACACGGAAATGTGAATACTCATCTCCATTCAATATATTGAAGCATTATCAG  
GGTTATGTCTCATGAGGGATAACATATTGAAATGTATTAGAAAATAACAAATAGGGGTC  
CGCGCACATTCCGGAAAAGTGCCACCTGACGTCTAAGAAACCATATTATCATGACATTAAAC  
CTATAAAATAGCGTATCACGAGGCCCTTCGTC

Fig. 10F

FIG. II

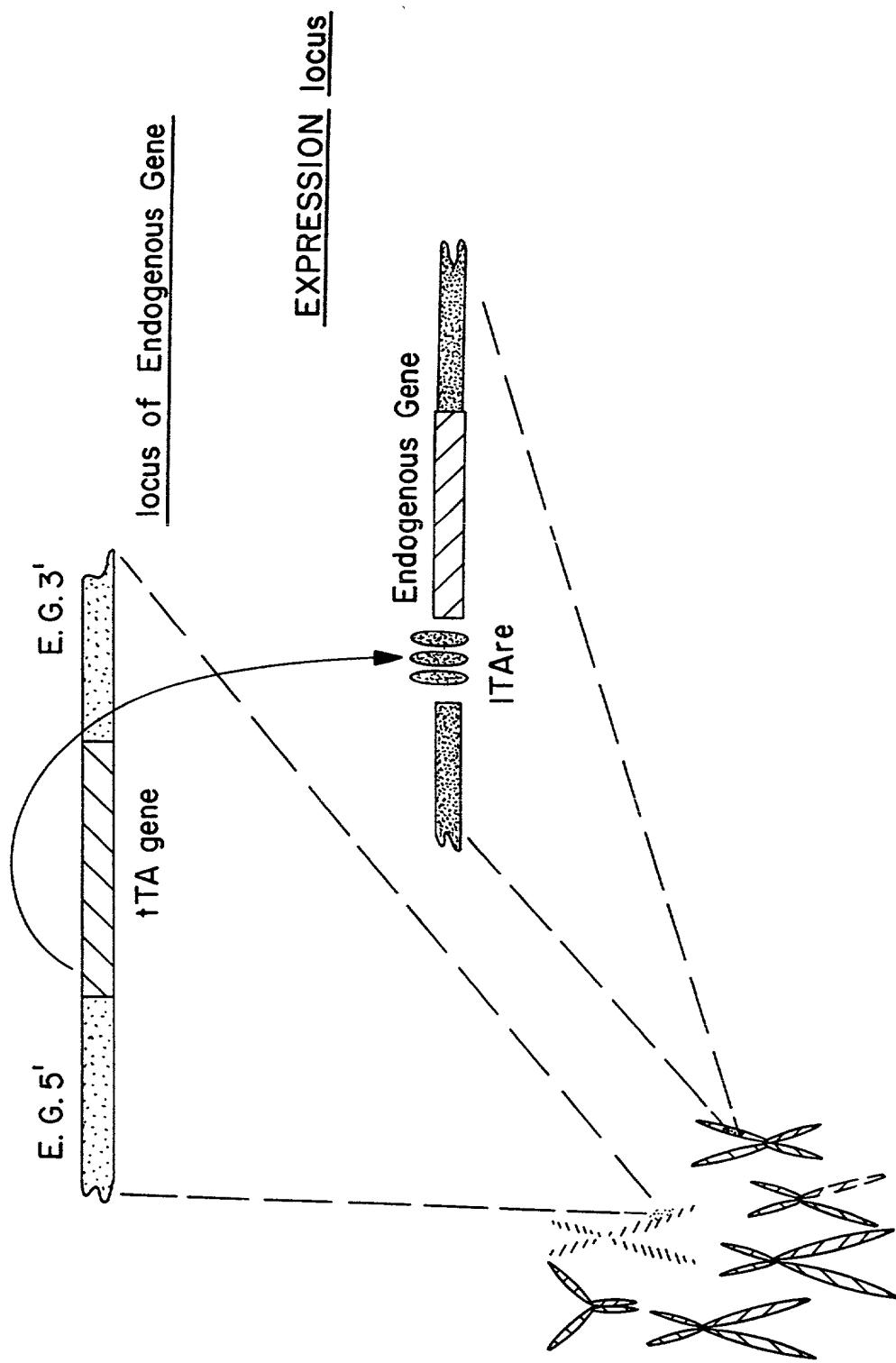


FIG. 12

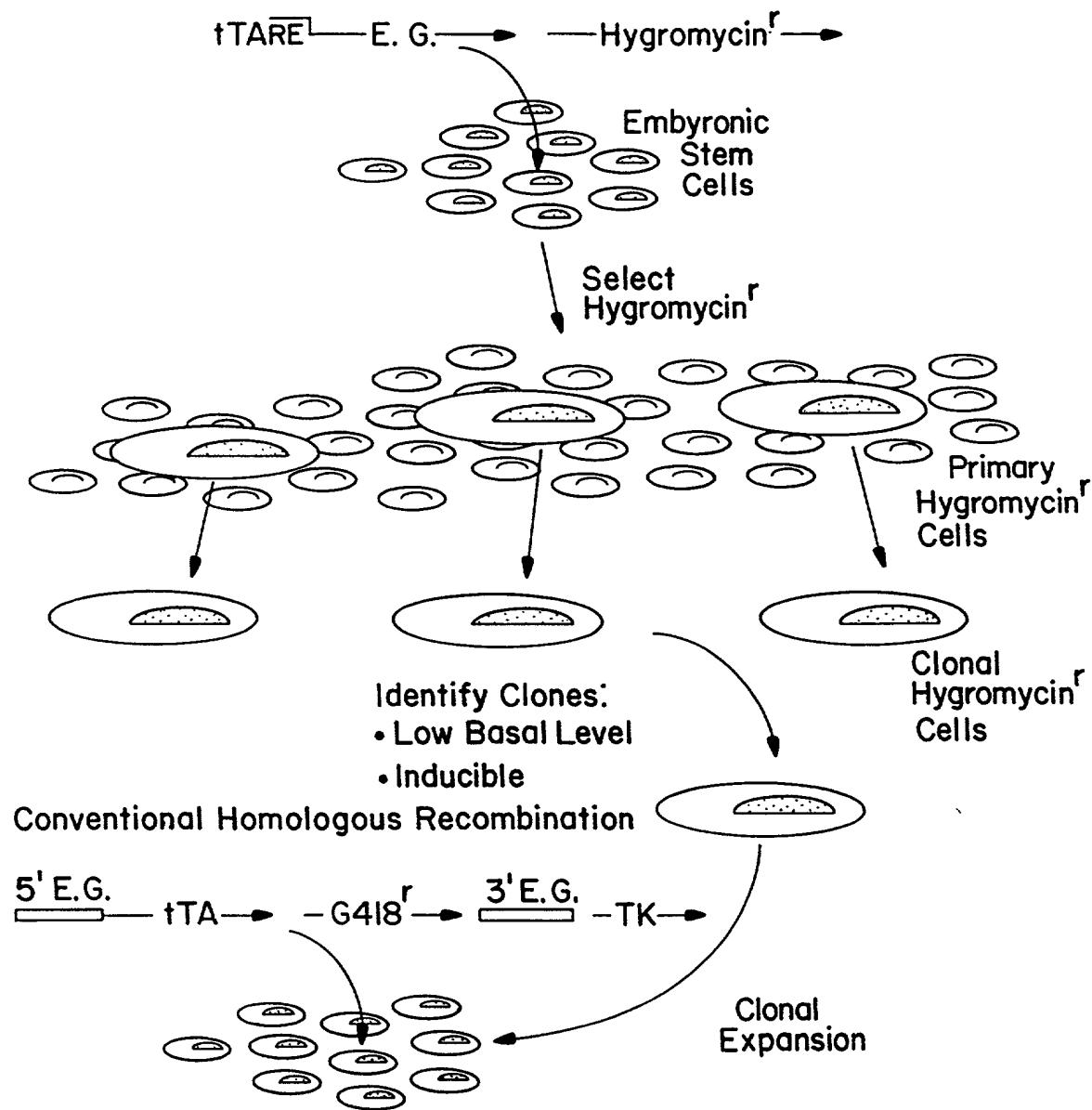


FIG. 13A

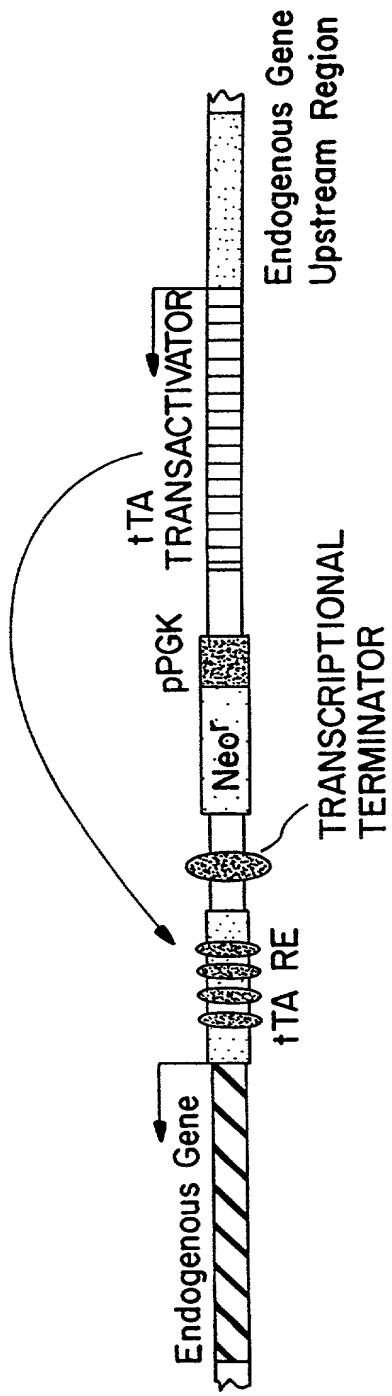


FIG. 13B

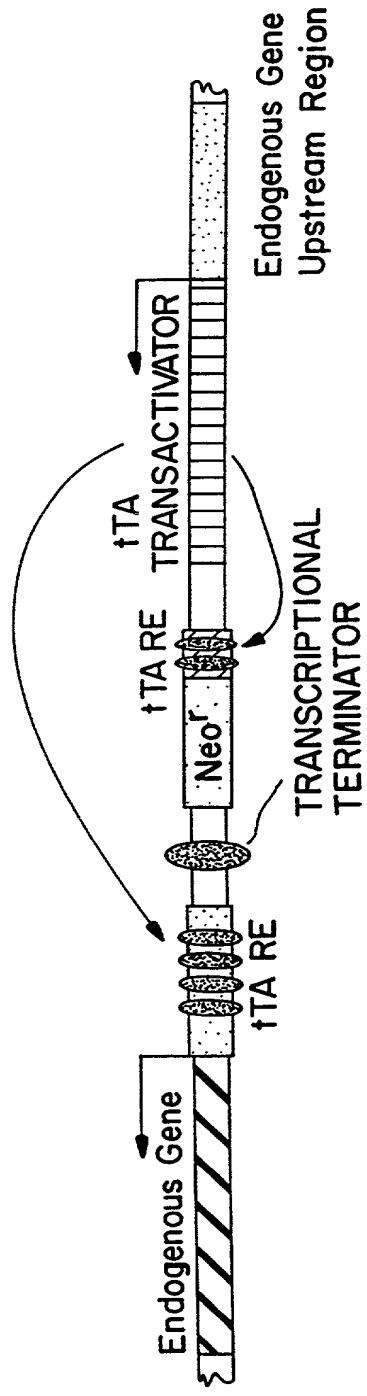


FIG.14

